

DRILL STEM TEST REPORT

Prepared For: **IAOC**

900 n Tyler Rd. #14
Wichita, KS> 67212

ATTN: Randy Kilian

19-8-26-Sheridan

Kathleen #19-2

Start Date: 2004.04.18 @ 18:20:10

End Date: 2004.04.19 @ 00:40:10

Job Ticket #: 17382 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

IAOC

Kathleen #19-2

19-8-26-Sheridan

DST # 1

Toronto-LKC "A"

2004.04.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

IAOC
900 n Tyler Rd. #14
Wichita, KS> 67212
ATTN: Randy Kilian

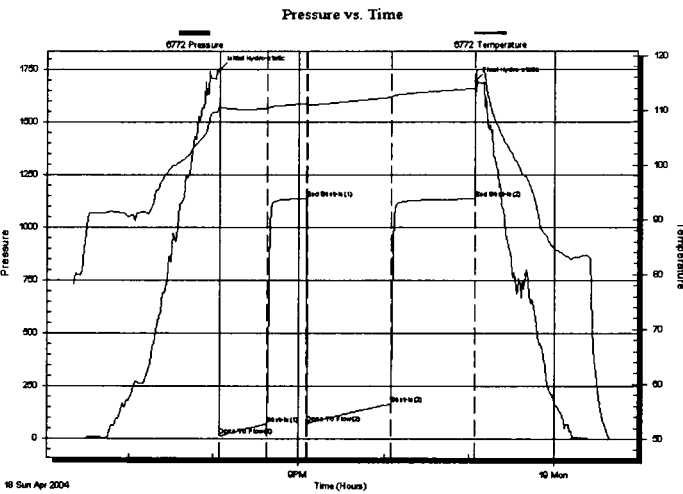
Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17382 **DST#: 1**
Test Start: 2004.04.18 @ 18:20:10

GENERAL INFORMATION:

Formation: **Toronto-LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:04:25
Time Test Ended: 00:40:10
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 24
Interval: **3588.00 ft (KB) To 3640.00 ft (KB) (TVD)**
Reference Elevations: 2482.00 ft (KB)
Total Depth: 3640.00 ft (KB) (TVD) 2477.00 ft (CF)
Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6772 Inside
Press@RunDepth: 167.36 psig @ 3592.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.04.18 End Date: 2004.04.19 Last Calib.: 1899.12.30
Start Time: 18:20:40 End Time: 00:40:10 Time On Btm: 2004.04.18 @ 20:04:10
Time Off Btm: 2004.04.18 @ 23:03:55

TEST COMMENT: FFP-Weak Blow ,Built to 3-1/4"
IS- No Blow Back
FFP-Weak Blow , Built to 1-1/2"
FS- No Blow back



PRESSURE SUMMARY

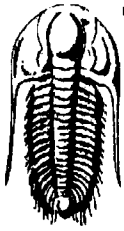
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.65	110.69	Initial Hydro-static
1	13.74	110.41	Open To Flow (1)
34	71.41	110.29	Shut-in(1)
62	1137.73	111.25	End Shut-in(1)
62	75.85	111.00	Open To Flow (2)
121	167.36	112.35	Shut-in(2)
180	1135.74	114.00	End Shut-in(2)
180	1694.22	114.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy Water	1.55

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

I/AOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17382

DST#: 1

ATTN: Randy Kilian

Test Start: 2004.04.18 @ 18:20:10

Tool Information

Drill Pipe:	Length: 3087.00 ft	Diameter: 3.80 inches	Volume: 43.30 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 45.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3588.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3568.00	
Shut In Tool	5.00			3573.00	
Hydraulic tool	5.00			3578.00	
Packer	5.00			3583.00	21.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Stubb	1.00			3589.00	
Perforations	2.00			3591.00	
Change Over Sub	1.00			3592.00	
Recorder	0.00	6772	Inside	3592.00	
Blank Spacing	31.00			3623.00	
Change Over Sub	1.00			3624.00	
Perforations	13.00			3637.00	
Recorder	0.00	13252	Outside	3637.00	
Bullnose	3.00			3640.00	52.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17382

DST#: 1

ATTN: Randy Kilian

Test Start: 2004.04.18 @ 18:20:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Muddy Water	1.549

Total Length: 315.00 ft

Total Volume: 1.549 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

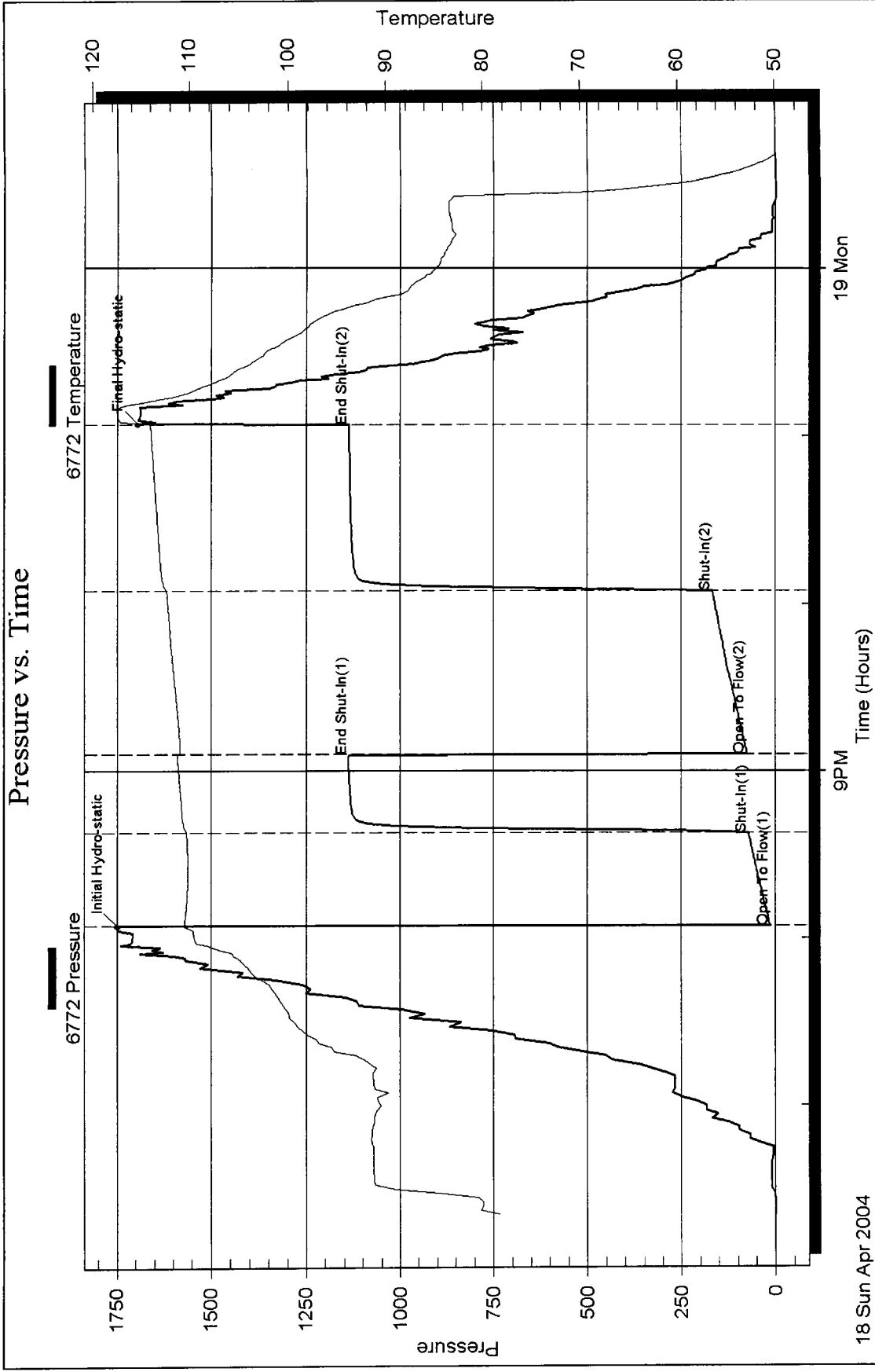
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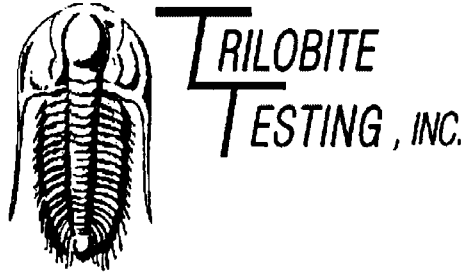
Inside IAO

19-8-26-Sheridan

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **IAOC**

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ATTN: Randy Kilian

19-8-26-Sheridan

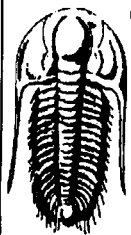
Kathleen #19-2

Start Date: 2004.04.19 @ 07:28:52

End Date: 2004.04.19 @ 14:53:22

Job Ticket #: 17383 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

IAOC
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ATTN: Randy Kilian

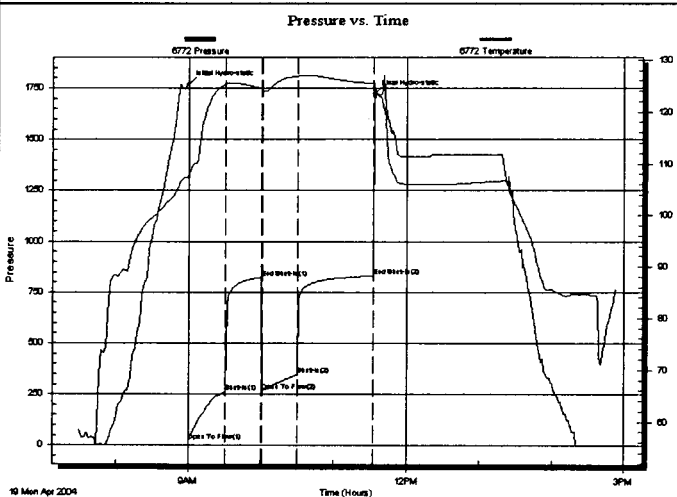
Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17383 **DST#: 2**
Test Start: 2004.04.19 @ 07:28:52

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:00:07
Time Test Ended: 14:53:22
Interval: **3643.00 ft (KB) To 3670.00 ft (KB) (TVD)**
Total Depth: 36700.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 24
Reference Elevations: 2482.00 ft (KB)
2477.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**
Press@RunDepth: 346.15 psig @ 3645.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.04.19 End Date: 2004.04.19 Last Calib.: 1899.12.30
Start Time: 07:29:22 End Time: 14:53:22 Time On Btm: 2004.04.19 @ 08:59:52
Time Off Btm: 2004.04.19 @ 11:32:52

TEST COMMENT: IFF-Good Blow , BOB in 11 min,
ISI-Weak Surface Blow back.
FFP-Fair Blow , BOB in 17 min.
FSI-Weak Surface Blow back



PRESSURE SUMMARY

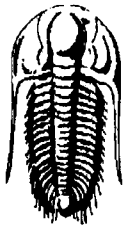
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.70	108.01	Initial Hydro-static
1	18.54	107.46	Open To Flow (1)
32	261.71	125.44	Shut-In(1)
61	821.26	124.55	End Shut-In(1)
62	266.59	124.37	Open To Flow (2)
91	346.15	126.88	Shut-In(2)
153	829.87	125.42	End Shut-In(2)
153	1723.76	125.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Muddy Water W/Oil Show	5.39
10.00	Clean Oil	0.14

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17383

DST#: 2

ATTN: Randy Kilian

Test Start: 2004.04.19 @ 07:28:52

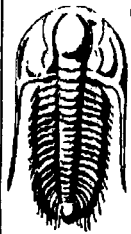
Tool Information

Drill Pipe:	Length: 3151.00 ft	Diameter: 3.80 inches	Volume: 44.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3643.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3623.00	
Shut In Tool	5.00			3628.00	
Hydraulic tool	5.00			3633.00	
Packer	5.00			3638.00	21.00 Bottom Of Top Packer
Packer	5.00			3643.00	
Stubb	1.00			3644.00	
Perforations	1.00			3645.00	
Recorder	0.00	6772	Inside	3645.00	
Perforations	22.00			3667.00	
Recorder	0.00	13252	Outside	3667.00	
Bullnose	3.00			3670.00	27.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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FLUID SUMMARY

IAOC
900 n Tyler Rd. #14
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ATTN: Randy Kilian

Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17383 **DST#: 2**
Test Start: 2004.04.19 @ 07:28:52

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 35000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	Muddy Water W/Oil Show	5.392
10.00	Clean Oil	0.140

Total Length: 710.00 ft Total Volume: 5.532 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6772

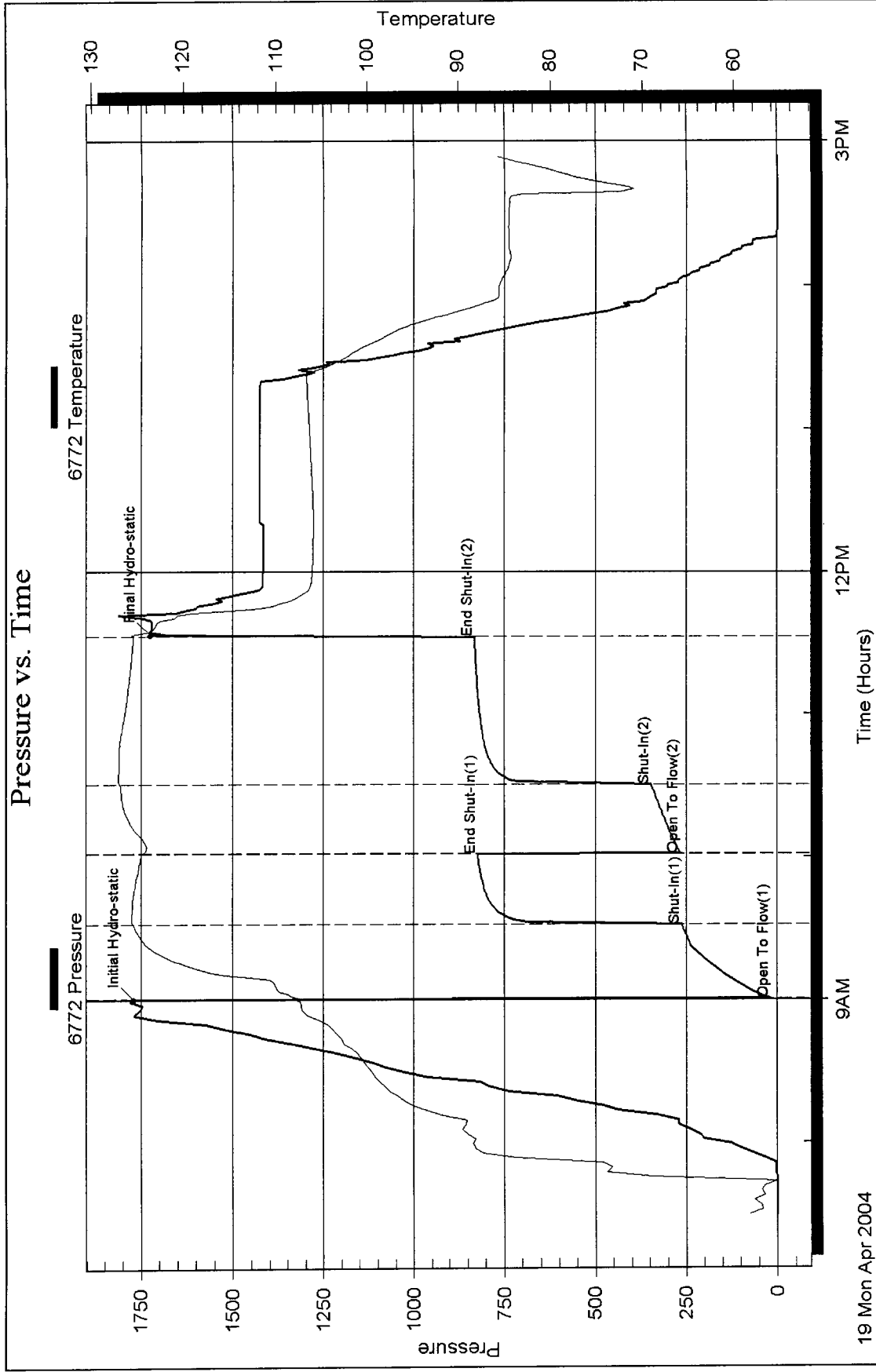
Inside

IAOC

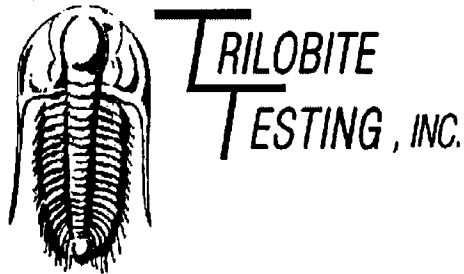
19-8-26-Sheridan

DST Test Number: 2

Pressure vs. Time



19 Mon Apr 2004



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19-8-26-Sheridan

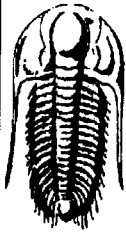
Kathleen #19-2

Start Date: 2004.04.19 @ 22:15:07

End Date: 2004.04.20 @ 18:30:46

Job Ticket #: 17384 DST #: 3

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DRILL STEM TEST REPORT

IAOC
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ATTN: Randy Kilian

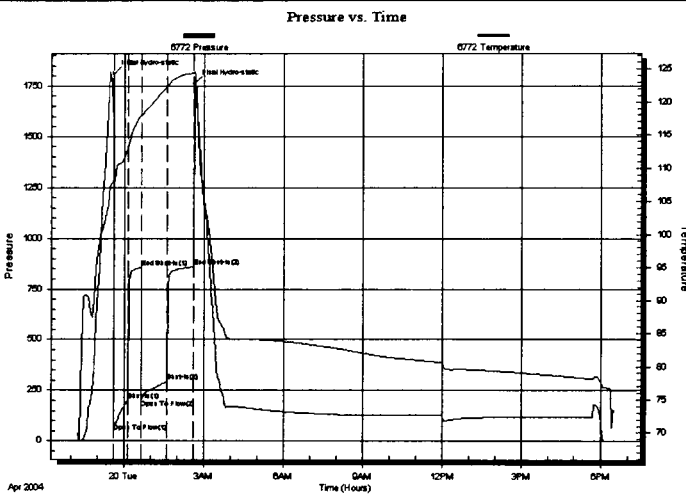
Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17384 **DST#: 3**
Test Start: 2004.04.19 @ 22:15:07

GENERAL INFORMATION:

Formation: **"D-G"**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**
Time Tool Opened: **23:37:07** Tester: **Jason McLemore**
Time Test Ended: **18:30:46** Unit No: **24**
Interval: **3668.00 ft (KB) To 3720.00 ft (KB) (TVD)** Reference Elevations: **2482.00 ft (KB)**
Total Depth: **3720.00 ft (KB) (TVD)** **2477.00 ft (CF)**
Hole Diameter: **7.80 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

Serial #: 6772 **Inside**
Press@RunDepth: **294.04 psig @ 3672.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2004.04.19** End Date: **2004.04.20** Last Calib.: **1899.12.30**
Start Time: **22:15:37** End Time: **18:30:46** Time On Btm: **2004.04.19 @ 23:36:37**
Time Off Btm: **2004.04.20 @ 02:38:22**

TEST COMMENT: IFP- Fair Blow ,Built to 10"
ISI-No Blow back
FFP-Fair Blow , Built to 9"
FSI- No Blow back



PRESSURE SUMMARY

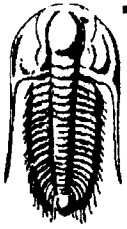
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.20	108.42	Initial Hydro-static
1	44.78	107.56	Open To Flow (1)
32	201.08	113.02	Shut-in(1)
62	857.58	118.11	End Shut-in(1)
63	204.41	118.00	Open To Flow (2)
121	294.04	122.35	Shut-in(2)
181	859.65	124.41	End Shut-in(2)
182	1761.41	124.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
539.00	Muddy Water/ Oil Spots	3.13
1.00	Clean Oil	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IAOC
900 n Tyler Rd. #14
Wichita, KS> 67212
ATTN: Randy Kilian

Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17384 **DST#: 3**
Test Start: 2004.04.19 @ 22:15:07

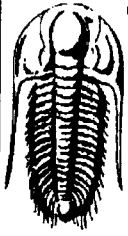
Tool Information

Drill Pipe:	Length: 3185.00 ft	Diameter: 3.80 inches	Volume: 44.68 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3668.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3648.00	
Shut In Tool	5.00			3653.00	
Hydraulic tool	5.00			3658.00	
Packer	5.00			3663.00	21.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Stubb	1.00			3669.00	
Perforations	2.00			3671.00	
Change Over Sub	1.00			3672.00	
Recorder	0.00	6772	Inside	3672.00	
Blank Spacing	31.00			3703.00	
Change Over Sub	1.00			3704.00	
Perforations	13.00			3717.00	
Recorder	0.00	13252	Outside	3717.00	
Bullnose	3.00			3720.00	52.00 Bottom Packers & Anchor

Total Tool Length: 73.00



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DRILL STEM TEST REPORT

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ATTN: Randy Killian

Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17384 **DST#: 3**
Test Start: 2004.04.19 @ 22:15:07

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	33000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
539.00	Muddy Water/ Oil Spots	3.134
1.00	Clean Oil	0.014

Total Length: 540.00 ft Total Volume: 3.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

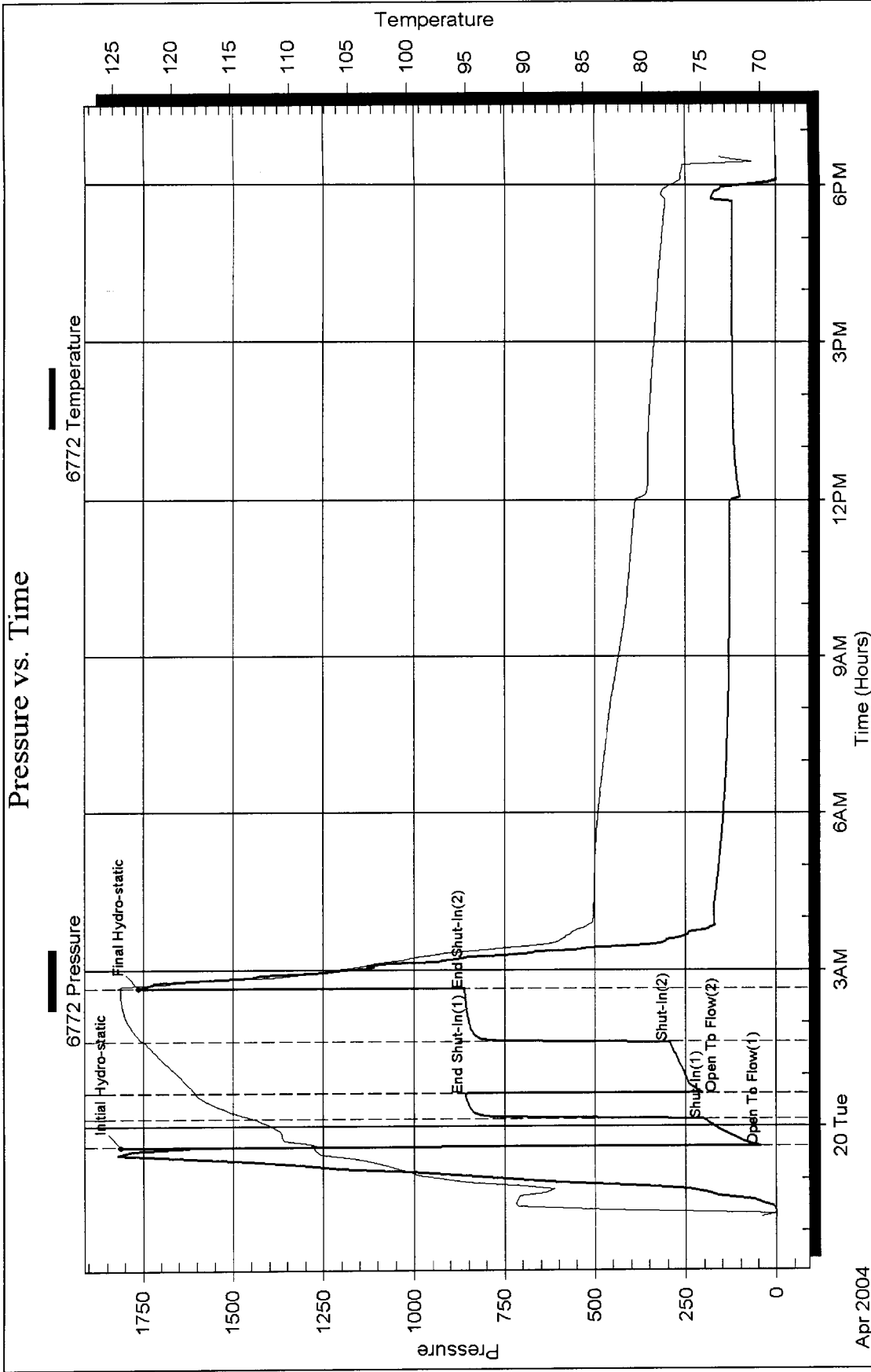
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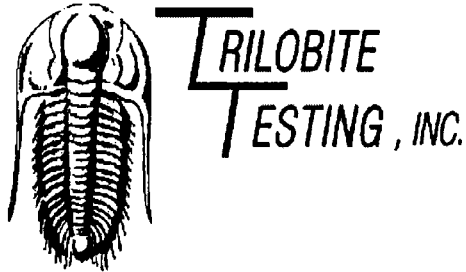
Inside IAO

19-8-26-Sheridan

DST Test Number: 3

Pressure vs. Time





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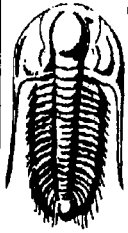
Kathleen #19-2

Start Date: 2004.04.21 @ 06:44:40

End Date: 2004.04.21 @ 13:46:40

Job Ticket #: 17385 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

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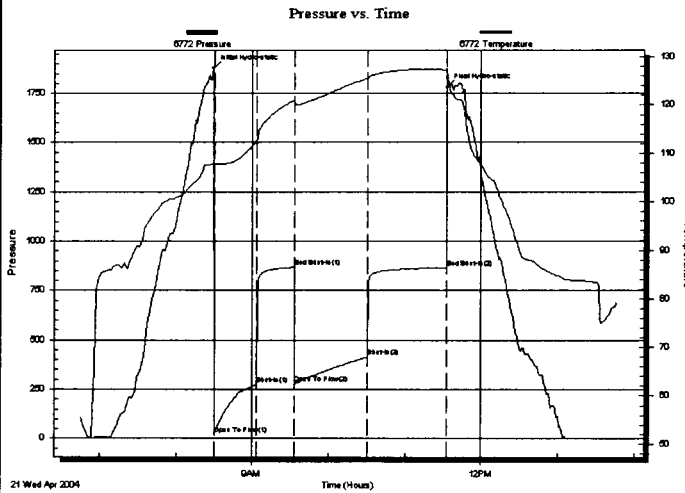
Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17385 **DST#: 4**
Test Start: 2004.04.21 @ 06:44:40

GENERAL INFORMATION:

Formation: "H-I"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:40
Time Test Ended: 13:46:40
Interval: 3739.00 ft (KB) To 3790.00 ft (KB) (TVD)
Total Depth: 3790.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 24
Reference Elevations: 2482.00 ft (KB)
2477.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**
Press@RunDepth: 413.55 psig @ 3742.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2004.04.21 End Date: 2004.04.21 Last Calib.: 1899.12.30
Start Time: 06:45:10 End Time: 13:46:40 Time On Btm: 2004.04.21 @ 08:28:55
Time Off Btm: 2004.04.21 @ 11:33:10

TEST COMMENT: FFP-Good Blow , BOB in 9 min.
ISI-1/8" Blow back Throughout
FFP-Fair Blow , BOB in 26 min.
FSI- Blow back Built to 1-1/2"



PRESSURE SUMMARY

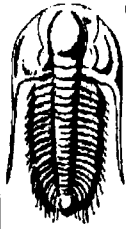
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.77	107.84	Initial Hydro-static
1	20.89	107.55	Open To Flow (1)
35	274.88	112.64	Shut-In (1)
65	867.13	121.01	End Shut-In (1)
65	279.20	120.65	Open To Flow (2)
122	413.55	125.48	Shut-In (2)
184	865.02	127.31	End Shut-In (2)
185	1779.69	127.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
838.00	Muddy Water W/Oil Show	7.33
12.00	Clean Oil	0.17

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

IAOC
900 n Tyler Rd. #14
Wichita, KS> 67212
ATTN: Randy Kilian

Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17385 **DST#: 4**
Test Start: 2004.04.21 @ 06:44:40

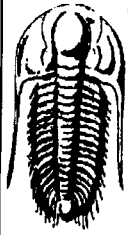
Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.80 inches	Volume: 45.50 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3739.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3719.00	
Shut In Tool	5.00			3724.00	
Hydraulic tool	5.00			3729.00	
Packer	5.00			3734.00	21.00 Bottom Of Top Packer
Packer	5.00			3739.00	
Stubb	1.00			3740.00	
Perforations	1.00			3741.00	
Change Over Sub	1.00			3742.00	
Recorder	0.00	6772	Inside	3742.00	
Blank Spacing	31.00			3773.00	
Change Over Sub	1.00			3774.00	
Perforations	13.00			3787.00	
Recorder	0.00	13252	Outside	3787.00	
Bullnose	3.00			3790.00	51.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17385

DST#: 4

ATTN: Randy Kilian

Test Start: 2004.04.21 @ 06:44:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
838.00	Muddy Water W/Oil Show	7.328
12.00	Clean Oil	0.168

Total Length: 850.00 ft Total Volume: 7.496 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

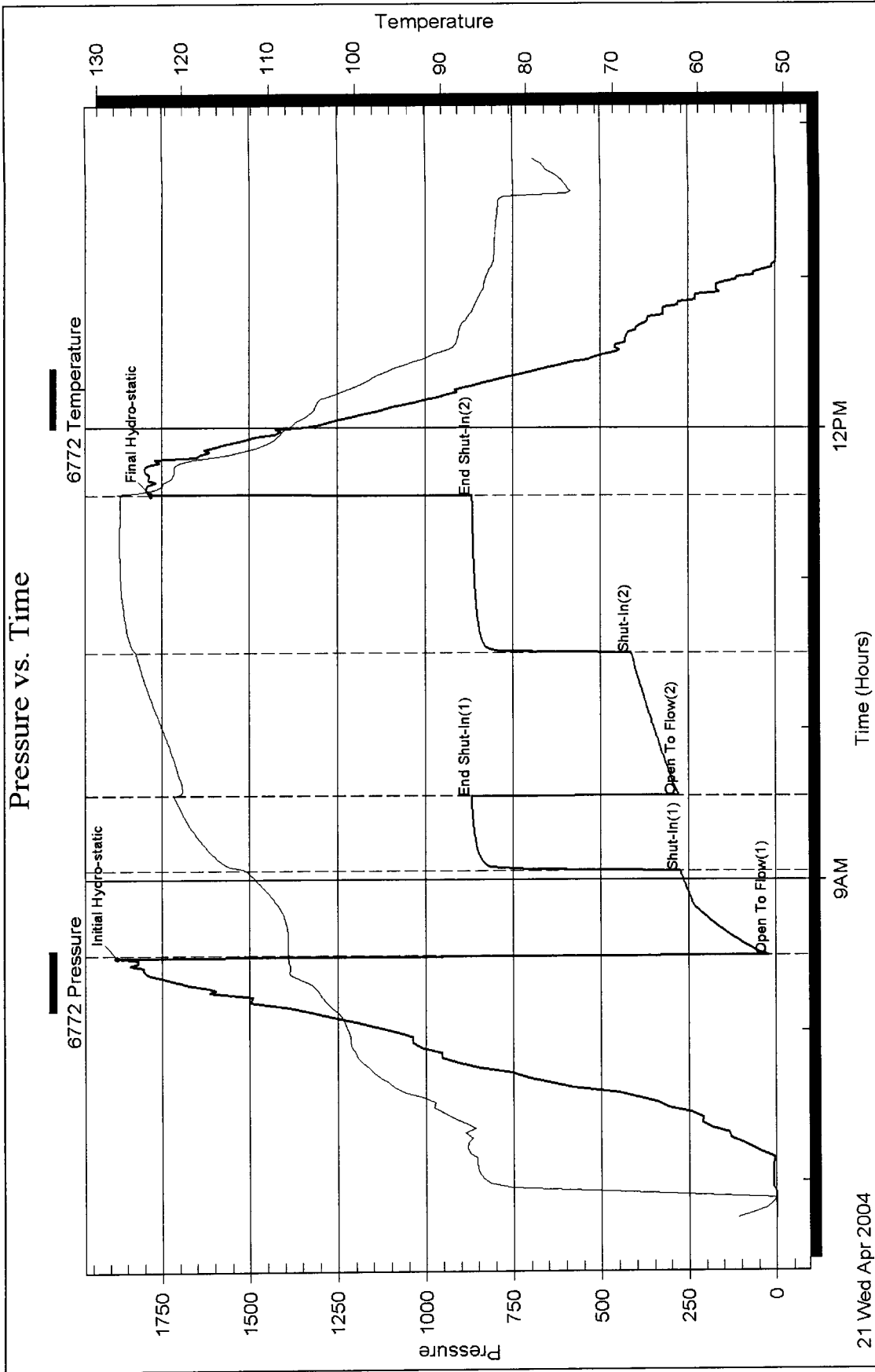
Inside

IAOC

19-8-26-Sheridan

DST Test Number: 4

Pressure vs. Time

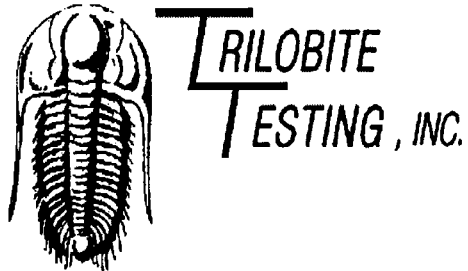


21 Wed Apr 2004

9AM

12PM

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **IAOC**

900 n Tyler Rd. #14
Wichita, KS> 67212

ATTN: Randy Kilian

19-8-26-Sheridan

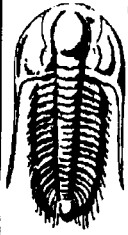
Kathleen #19-2

Start Date: 2004.04.21 @ 20:38:15

End Date: 2004.04.22 @ 05:27:55

Job Ticket #: 17386 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

IAOC
 900 n Tyler Rd. #14
 Wichita, KS> 67212
 ATTN: Randy Kilian

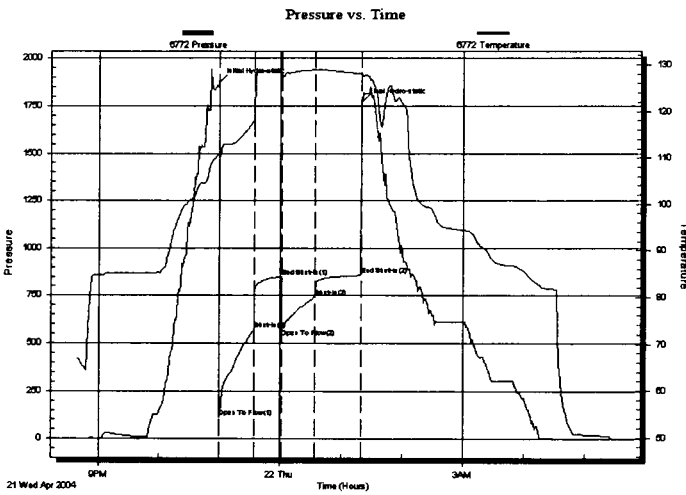
Kathleen #19-2
19-8-26-Sheridan
 Job Ticket: 17386 **DST#: 5**
 Test Start: 2004.04.21 @ 20:38:15

GENERAL INFORMATION:

Formation: **"J-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:00:00
 Time Test Ended: 05:27:55
 Interval: **3785.00 ft (KB) To 3830.00 ft (KB) (TVD)**
 Total Depth: 3830.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 24
 Reference Elevations: 2482.00 ft (KB)
 2477.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 743.14 psig @ 3788.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.04.21 End Date: 2004.04.22 Last Calib.: 1899.12.30
 Start Time: 20:38:45 End Time: 05:27:55 Time On Btm: 2004.04.21 @ 22:59:45
 Time Off Btm: 2004.04.22 @ 01:20:00

TEST COMMENT: FFP-Strong Blow , BOB in 1 min.
 ISI-Blow back to 1"
 FFP-Strong Blow , BOB in 1 min.
 FSI- Blow back to 1"



PRESSURE SUMMARY

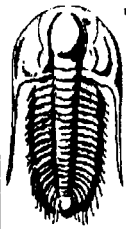
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.10	111.05	Initial Hydro-static
1	112.44	110.49	Open To Flow (1)
35	570.14	118.04	Shut-In(1)
62	849.61	128.21	End Shut-In(1)
62	573.46	128.04	Open To Flow (2)
95	743.14	128.97	Shut-In(2)
140	855.80	128.06	End Shut-In(2)
141	1771.02	128.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1020.00	Slightly Mud Cut Oil, 10% Water, 5% Mud	9.88
720.00	Muddy Water W/ Oil Show	10.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17386

DST#: 5

ATTN: Randy Kilian

Test Start: 2004.04.21 @ 20:38:15

Tool Information

Drill Pipe:	Length: 3306.00 ft	Diameter: 3.80 inches	Volume: 46.37 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3785.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3765.00	
Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00			3775.00	
Packer	5.00			3780.00	21.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Stubb	1.00			3786.00	
Perforations	1.00			3787.00	
Change Over Sub	1.00			3788.00	
Recorder	0.00	6772	Inside	3788.00	
Blank Spacing	31.00			3819.00	
Change Over Sub	1.00			3820.00	
Perforations	13.00			3833.00	
Recorder	0.00	13252	Outside	3833.00	
Bullnose	3.00			3836.00	51.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17386

DST#: 5

ATTN: Randy Kilian

Test Start: 2004.04.21 @ 20:38:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	41000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 22000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1020.00	Slightly Mud Cut Oil, 10% Water, 5% Mud	9.881
720.00	Muddy Water W/ Oil Show	10.100

Total Length: 1740.00 ft Total Volume: 19.981 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

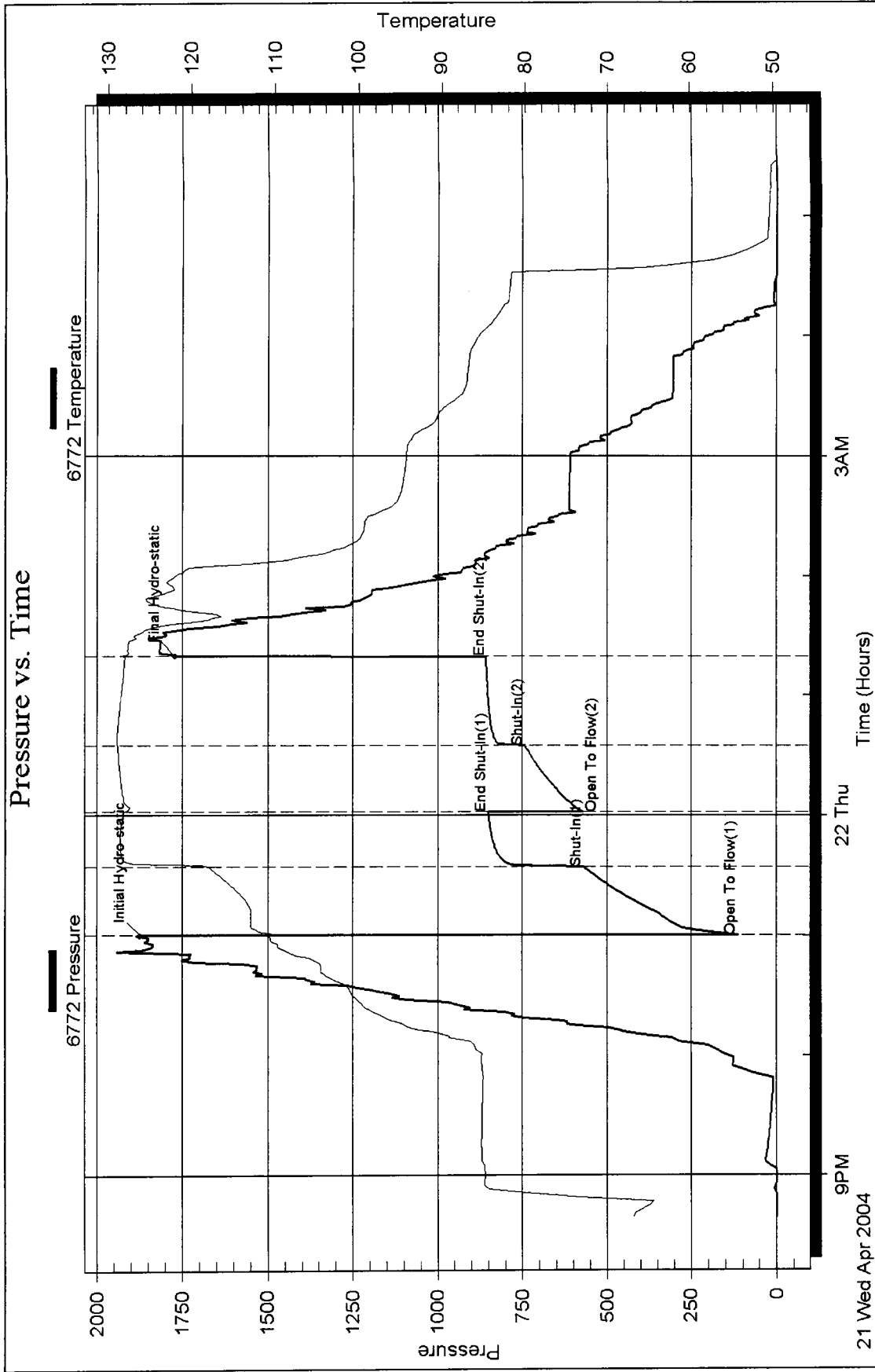
Recovery Comments:

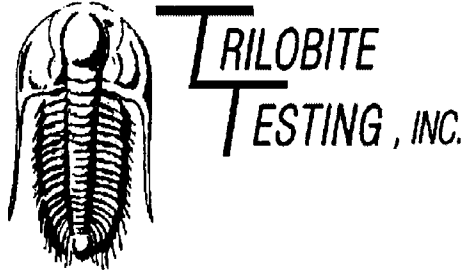
Serial #: 6772

Inside IAOC

19-8-26-Sheridan

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **IAOC**

900 n Tyler Rd. #14
Wichita, KS> 67212

ATTN: Randy Kilian

19-8-26-Sheridan

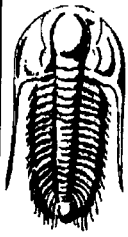
Kathleen #19-2

Start Date: 2004.04.22 @ 21:33:57

End Date: 2004.04.23 @ 04:07:57

Job Ticket #: 17387 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

IAOC
 900 n Tyler Rd. #14
 Wichita, KS> 67212
 ATTN: Randy Kilian

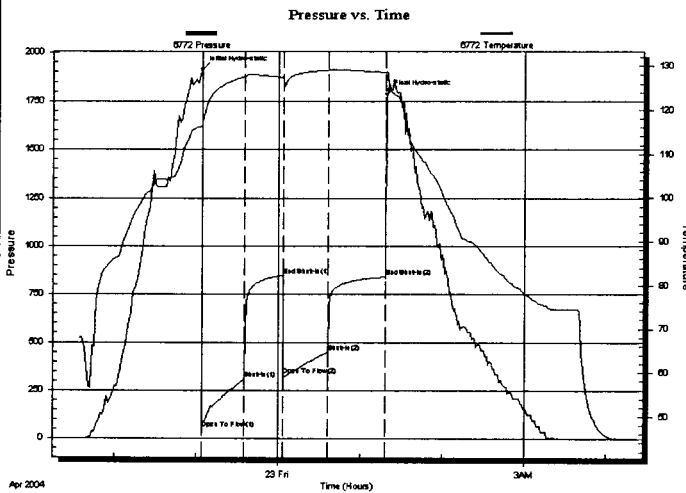
Kathleen #19-2
19-8-26-Sheridan
 Job Ticket: 17387 **DST#: 6**
 Test Start: 2004.04.22 @ 21:33:57

GENERAL INFORMATION:

Formation: "K"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:04:12
 Time Test Ended: 04:07:57
 Interval: **3802.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3926.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Straddle
 Tester: Jason McLemore
 Unit No: 24
 Reference Elevations: 2482.00 ft (KB)
 2477.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6772 **Inside**
 Press@RunDepth: 449.48 psig @ 3803.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2004.04.22 End Date: 2004.04.23 Last Calib.: 1899.12.30
 Start Time: 21:34:27 End Time: 04:07:57 Time On Btm: 2004.04.22 @ 23:03:57
 Time Off Btm: 2004.04.23 @ 01:18:42

TEST COMMENT: IFP-Strong Blow, BOB in 2 min.
 IS- Built to BOB in 8 min.
 FFP-BOB on Opening
 FSI-Built to BOB in 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1913.09	116.52	Initial Hydro-static
1	50.25	116.96	Open To Flow (1)
32	307.37	127.60	Shut-In (1)
60	847.50	127.38	End Shut-In(1)
60	327.56	126.91	Open To Flow (2)
93	449.48	129.12	Shut-In(2)
135	839.94	128.55	End Shut-In(2)
135	1785.70	128.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Mud Cut Oil, 15% Mud	1.77
810.00	Clean Oil, 15% Gas	10.21

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

IAOC
900 n Tyler Rd. #14
Wichita, KS> 67212
ATTN: Randy Kilian

Kathleen #19-2
19-8-26-Sheridan
Job Ticket: 17387 **DST#: 6**
Test Start: 2004.04.22 @ 21:33:57

Tool Information

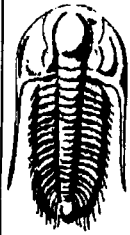
Drill Pipe:	Length: 3307.00 ft	Diameter: 3.80 inches	Volume: 46.39 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 486.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3802.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	3816.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	146.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3782.00	
Shut In Tool	5.00			3787.00	
Hydraulic tool	5.00			3792.00	
Packer	5.00			3797.00	21.00 Bottom Of Top Packer
Packer	5.00			3802.00	
Stubb	1.00			3803.00	
Recorder	0.00	6772	Inside	3803.00	
Perforations	12.00			3815.00	
Recorder	0.00	13221	Outside	3815.00	
Blank Off Sub	1.00			3816.00	14.00 Tool Interval
Packer	5.00			3821.00	
Stubb	1.00			3822.00	
Change Over Sub	1.00			3823.00	
Blank Spacing	94.00			3917.00	
Change Over Sub	1.00			3918.00	
Perforations	6.00			3924.00	
Recorder	0.00	13252	Below	3924.00	
Bullnose	3.00			3927.00	111.00 Bottom Packers & Anchor

Total Tool Length: 146.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

IAOC

Kathleen #19-2

900 n Tyler Rd. #14
Wichita, KS> 67212

19-8-26-Sheridan

Job Ticket: 17387

DST#: 6

ATTN: Randy Kilian

Test Start: 2004.04.22 @ 21:33:57

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	Mud Cut Oil, 15% Mud	1.770
810.00	Clean Oil, 15% Gas	10.214

Total Length: 1170.00 ft Total Volume: 11.984 bbl

Num Fluid Samples: 0

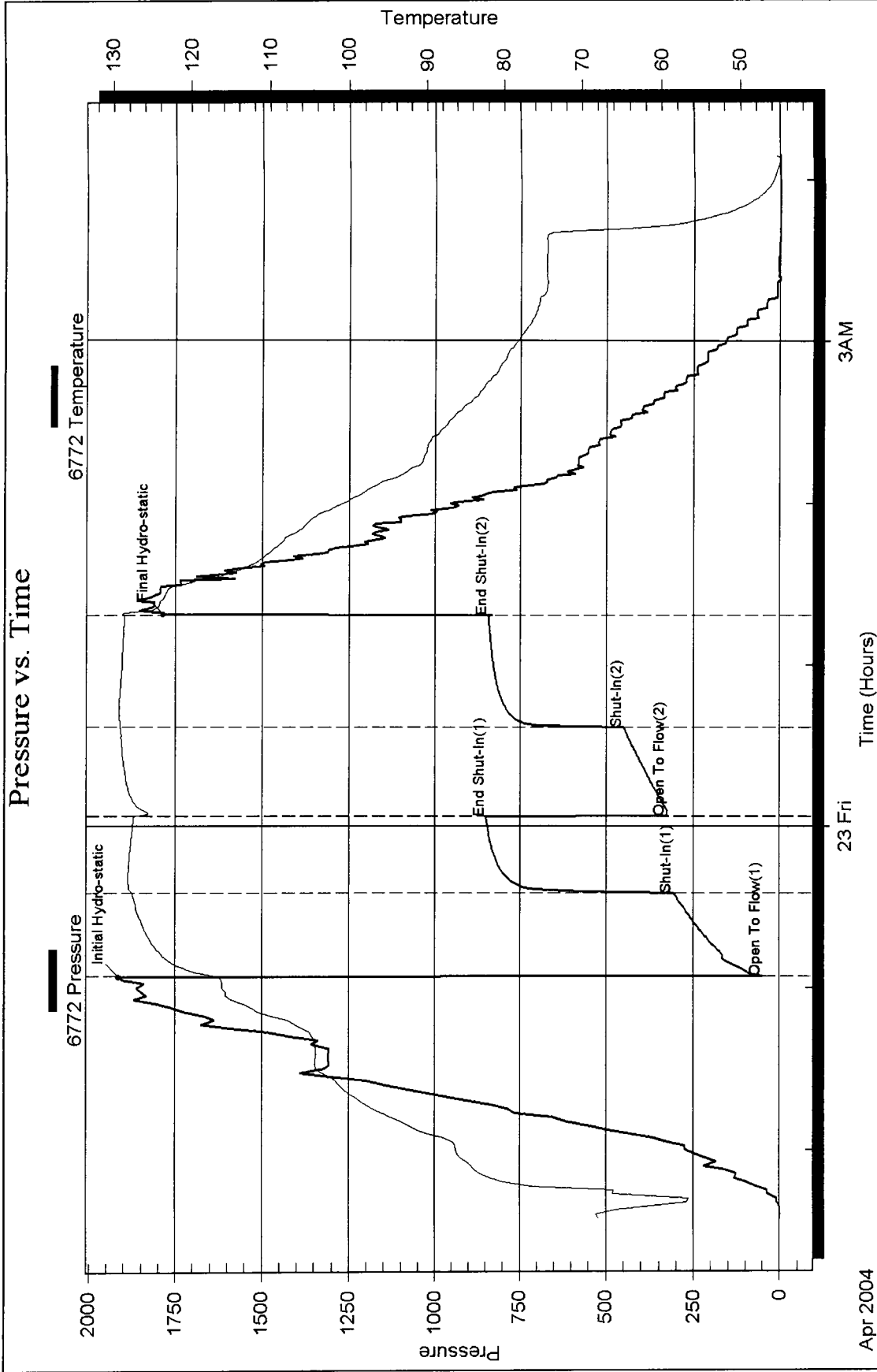
Num Gas Bombs: 0

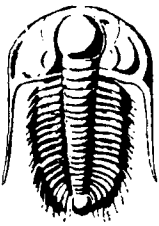
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2370 GIP





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
6362

No 17382

12/02

Test Ticket

Well Name & No. Kathleen # 19-2 Test No. 1 Date 4-18-04
 Company FA Operating Inc. Zone Tested Toronto-Like "A"
 Address 900 N. Tyler Rd, #14, Wichita, Ks, 67212 Elevation 2482 KB 2477 GL
 Co. Rep / Geo. Randy Kilian Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 8 Rge. 26 Co. Sheridan State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3588-3640 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 52 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 3583 Tool Weight 2400
 Bottom Packer Depth 3588 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3640 Wt. Pipe Run 0 Drill Collar Run 486
 Mud Wt. 9.0 LCM 0 Vis. 47 WL 7.6 Drill Pipe Size 4 1/2 XH Ft. Run 3087

Blow Description IFP - Weak Blow, Built to 3 1/4"
ISI - No Blowback
FFP - Weak Blow, Built to 1 1/2"
FST - No Blowback

Recovery - Total Feet 315 GIP _____ Ft. in DC 315 Ft. in DP _____
 Rec. 315 Feet of Muddy Water
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 226 @ 51 °F Chlorides 41,000 ppm Recovery _____ Chlorides 800 ppm System

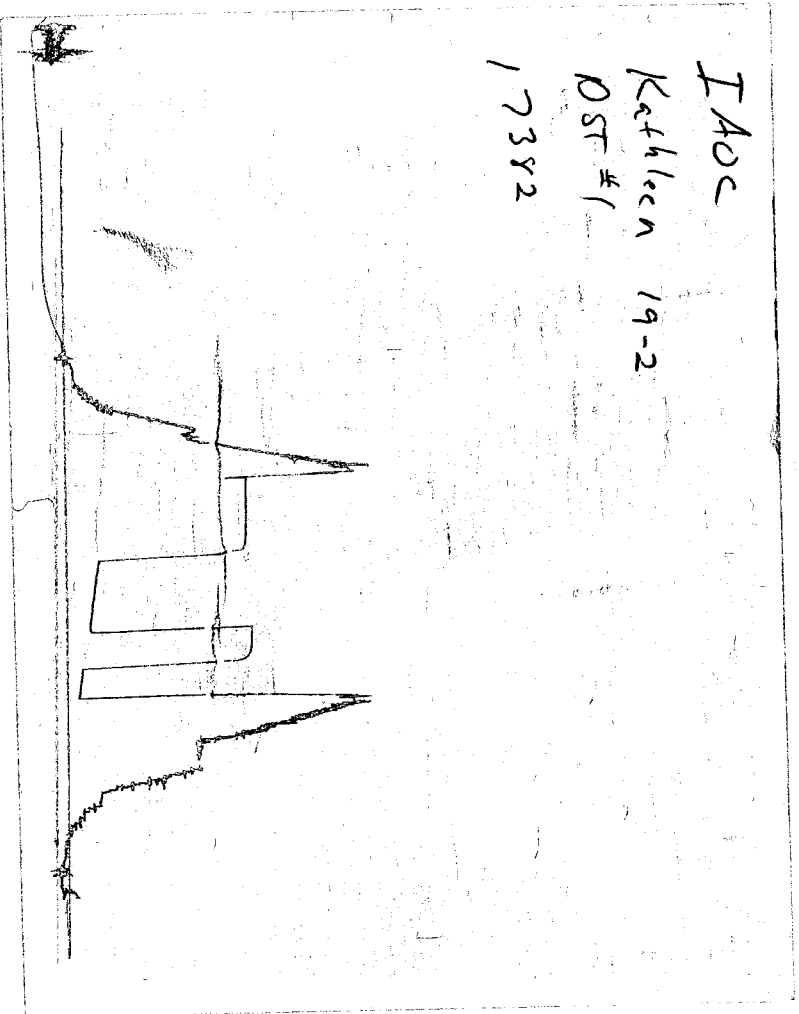
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1750</u> PSI	<u>6772</u>	<u>700</u> ✓
(B) First Initial Flow Pressure		<u>14</u> PSI	(depth) <u>3592</u>	Elec. Rec. <u>150</u> ✓
(C) First Final Flow Pressure		<u>71</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1138</u> PSI	(depth) <u>3637</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>76</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>167</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>1136</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1694</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>60</u>	Mileage <u>178</u> 89 <u>151.30</u>
			T-On Location <u>16:45</u>	Sub Total: <u>1001.30</u>
			T-Started <u>18:20</u>	Std. By _____
			T-Open <u>20:04</u>	Other _____
			T-Pulled <u>23:04</u>	Total: _____
			T-Out <u>00:35</u>	

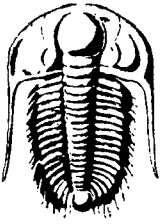
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative Jason McFarmer Thank you

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17383

12/02

Test Ticket

Well Name & No. Kathleen # 19-2 Test No. 2 Date 4-19-04
 Company I A Operating Inc. Zone Tested "C"
 Address 900 N. Tyler Rd. #14 Wichita, Ks 67212 Elevation 2482 KB 2477 GL
 Co. Rep / Geo. Randy Kilian Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 8 Rge. 26 Co. Sheridan State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3643 - 3670 Initial Str Wt./Lbs. 60,000 Unseated Str Wt/Lbs. 66,000
 Anchor Length 27' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3638 Tool Weight 2000
 Bottom Packer Depth 3643 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3670 Wt. Pipe Run 0 Drill Collar Run 486
 Mud Wt. 8.9 LCM 0 Vis. 49 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3151

Blow Description I FP - Good Blow, BOB in 11 min
ISI - Weak Surface Blowback for 10 min
FFP - Fair Blow, BOB in 17 min
FSI - Weak Surface Blowback for 8 min.

Recovery - Total Feet 710 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 16 Feet of Clean Oil
 Rec. 700 Feet of Muddy Water w/ oil show
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 125° °F Gravity 34 °API D @ 75 °F Corrected Gravity 32 °API
 RW 170 @ 79° °F Chlorides 35,000 ppm Recovery _____ Chlorides 800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1770</u> PSI	<u>6772</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>19</u> PSI	(depth) <u>3645</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>262</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>821</u> PSI	(depth) <u>3667</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>267</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>346</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>830</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1724</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

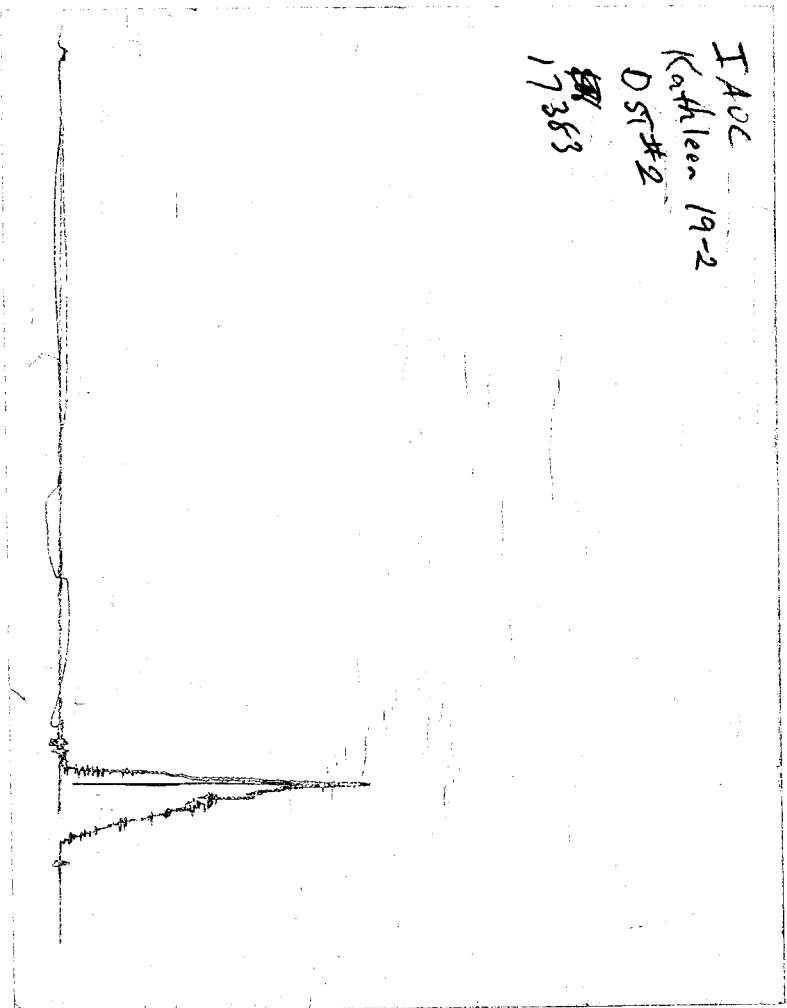
Approved By _____ T-Started 7:28
 Our Representative Jason McJannet T-Open 9:00
 T-On Location 6:55 T-Pulled 12:00 11:30
 T-Out 14:45

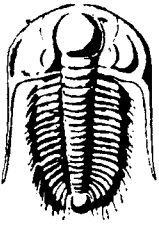
Final Flow 30 Shale Packer _____
 Final Shut-In 60 Mileage 89
 Sub Total: 1001.30
 Std. By _____
 Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

IADC
Kathleen 19-2
DST#2
~~17353~~
17353





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17384

12/02

Test Ticket

Well Name & No. <u>Kathleen # 19-2</u>	Test No. <u>3</u>	Date <u>4-19-04</u>
Company <u>IA Operating Inc.</u>	Zone Tested <u>"D-G"</u>	
Address <u>900 N. Tyler Rd. #14 Wichita, Ks. 67212</u>	Elevation <u>2482</u>	KB <u>2477</u> GL
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin #3</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>19</u> Twp. <u>8</u> Rge. <u>26</u> Co. <u>Sheridan</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>3668 - 3720</u>	Initial Str Wt./Lbs. <u>60,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u>52'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u>3663</u>	Tool Weight <u>2400</u>	
Bottom Packer Depth <u>3668</u>	Hole Size <u>7 7/8" ✓</u>	Rubber Size <u>6 3/4" ✓</u>
Total Depth <u>3720</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>486</u>
Mud Wt. <u>8.9</u> LCM <u>0</u> Vis. <u>49</u> WL <u>6.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3185</u>
Blow Description <u>I FP - Fair Blow, Built to 10"</u>		
<u>ISI - No Blowback</u>		
<u>FFP - Fair Blow, Built to 9"</u>		
<u>FST - No Blowback</u>		

Recovery - Total Feet <u>540</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>1</u> Feet of <u>Clean Oil</u>			
Rec. <u>539</u> Feet of <u>Muddy Water w/ oil spots</u>			
Rec. _____ Feet of _____			
Rec. _____ Feet of _____			
Rec. _____ Feet of _____			
BHT _____ °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW <u>180</u> @ <u>79</u> °F	Chlorides <u>33,000</u> ppm	Recovery _____	Chlorides <u>800</u> ppm System

	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1810</u>		<u>6772</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>45</u>		<u>3672</u>	<input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>201</u>		<u>13252</u>	
(D) Initial Shut-In Pressure		<u>858</u>		<u>3717</u>	
(E) Second Initial Flow Pressure		<u>204</u>			
(F) Second Final Flow Pressure		<u>294</u>			
(G) Final Shut-In Pressure		<u>860</u>		<u>30</u>	
(Q) Final Hydrostatic Mud		<u>1761</u>		<u>30</u>	

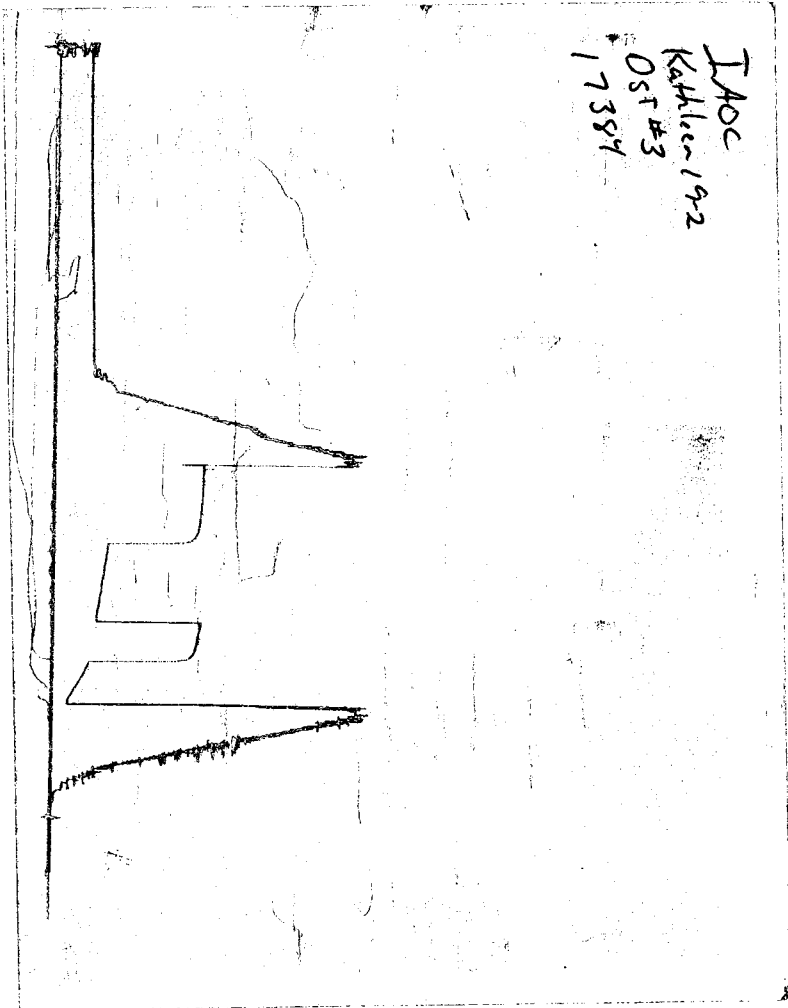
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

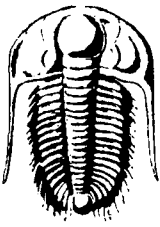
Approved By _____
 Our Representative Jason McJannet

Final Flow	<u>60</u>	Shale Packer	
Final Shut-In	<u>60</u>	Mileage	<u>89</u>
T-On Location	<u>21:30</u>	Sub Total:	<u>1001.30</u>
T-Started	<u>22:15</u>	Std. By	<u>1 Day 400.00</u>
T-Open	<u>23:37</u>	Other	
T-Pulled	<u>2:37</u>	Total:	<u>1401.30</u>
T-Out	<u>18:30</u>		

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17385

12/02

Test Ticket

Well Name & No. <u>Kathleen # 19-2</u>	Test No. <u>4</u>	Date <u>4-21-04</u>
Company <u>IA Operating Inc</u>	Zone Tested <u>H-I</u>	
Address <u>900 N Tyler Rd. # 14, Wichita, Ks. 67212</u>	Elevation <u>2482</u> KB <u>2477</u>	GL
Co. Rep / Geo. <u>Randy Kilian</u>	Cont. <u>Murfin # 3</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>19</u> Twp. <u>8</u> Rge. <u>26</u> Co. <u>Sheridan</u> State <u>Ks</u>		
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>3739 - 3790</u>	Initial Str Wt./Lbs. <u>60,000</u>	Unseated Str Wt/Lbs. _____
Anchor Length <u>51'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. _____
Top Packer Depth <u>3734</u>	Tool Weight <u>2400</u>	
Bottom Packer Depth <u>3739</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>3790</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>486</u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>47</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3244</u>
Blow Description <u>Good Blow, BOB In 9 min</u>		
<u>ISI - 1/8" Blowback Throughout</u>		
<u>FFP - Fair Blow, BOB in 26 min</u>		
<u>FSI - 1 1/2" Blowback</u>		

Recovery - Total Feet _____	GIP <u>230</u>	Ft. in DC _____	Ft. in DP _____
Rec. <u>12</u>	Feet of <u>Oil</u>		
Rec. <u>838</u>	Feet of <u>Muddy Water w/oil show</u>		
Rec. _____	Feet of _____		
Rec. _____	Feet of _____		
Rec. _____	Feet of _____		
BHT <u>127°</u>	°F Gravity <u>42</u>	°API D @ <u>80</u>	°F Corrected Gravity <u>40</u> °API _____
RW <u>.195</u>	@ <u>80</u> °F	Chlorides <u>30,000</u> ppm Recovery _____	Chlorides <u>2200</u> ppm System _____

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1878</u> PSI	<u>6772</u>	✓
(B) First Initial Flow Pressure	<u>20</u>	800 PSI	(depth) <u>3742</u>	Elec. Rec. ✓
(C) First Final Flow Pressure		<u>275</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>867</u> PSI	(depth) <u>3787</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>279</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>414</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>865</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1780</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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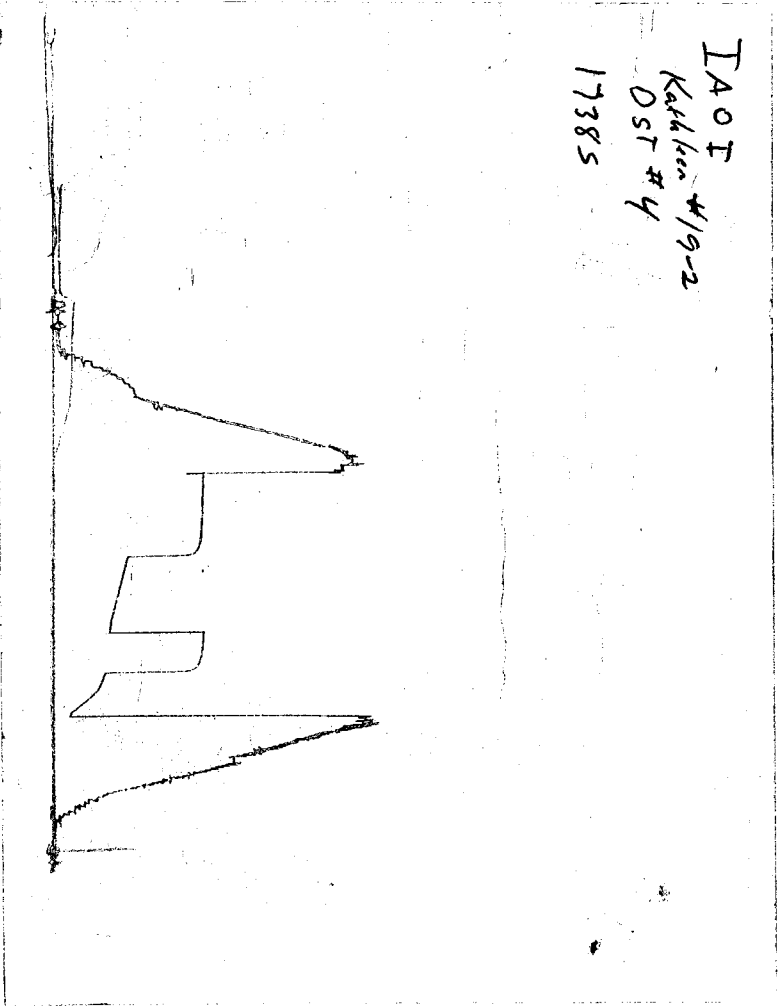
Final Flow	<u>60</u>	Shale Packer _____
Final Shut-In	<u>60</u>	Mileage <u>89</u>
T-On Location	<u>6:00</u>	Sub Total: <u>1001.30</u>
T-Started	<u>6:44</u>	Std. By _____
T-Open	<u>8:29</u>	Other _____
T-Pulled	<u>11:29</u>	Total: _____
T-Out	<u>13:40</u>	

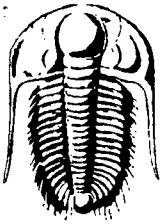
Approved By _____
 Our Representative Jason M. Lemore

CHART PAGE

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IAOT
Kadd/ken 4/19-2
OST # 4
17385





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17386

12/02

Test Ticket

Well Name & No. Kathleen #19-2 Test No. 5 Date 4-21-04
 Company JA Operating Inc Zone Tested J-K
 Address 900 N. Tyler Rd. #14, Wichita, Ks 67212 Elevation 2482 KB 2477 GL
 Co. Rep / Geo. Randy Kilian Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 8 Rge. 26 Co. Sheridan State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3785 - 3830 Initial Str Wt./Lbs. 60,000 Unseated Str Wt/Lbs. 64,000
 Anchor Length 45' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 3780 Tool Weight 2400
 Bottom Packer Depth 3785 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3830 Wt. Pipe Run 0 Drill Collar Run 486
 Mud Wt. 9.2 LCM 0 Vis. 47 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3306

Blow Description I FP - Strong Blow, BOB in 1 min.
ISI - Built to 1"
FFP - Strong Blow, BOB in 1 min
FSI - Built to 1"

Recovery - Total Feet 1740 GIP 630 Ft. in DC _____ Ft. in DP _____
 Rec. 1020 Feet of Mud cut Oil, 5% mud 10% water
 Rec. 720 Feet of Muddy water w/oil show
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 128° °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 225 @ 50 °F Chlorides 41000 ppm Recovery _____ Chlorides 2200 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1873</u> PSI	<u>677.2</u>	<input checked="" type="checkbox"/>
(B) First Initial Flow Pressure		<u>112</u> PSI	(depth) <u>3788</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure		<u>570</u> PSI	Recorder No. <u>13252</u>	Jars _____
(D) Initial Shut-In Pressure		<u>850</u> PSI	(depth) <u>3827</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>573</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>743</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>856</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>1771</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>45</u>	Mileage <u>89</u>
			T-On Location <u>19:45</u>	Sub Total: <u>1001.30</u>
			T-Started <u>20:38</u>	Std. By <u>hr 30</u>
			T-Open <u>23:00</u>	Other _____
			T-Pulled <u>1:45</u>	Total: <u>1031.30</u>
			T-Out <u>4:45</u>	

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Approved By _____
 Our Representative Jason McJannet *Thank you*

CHART PAGE

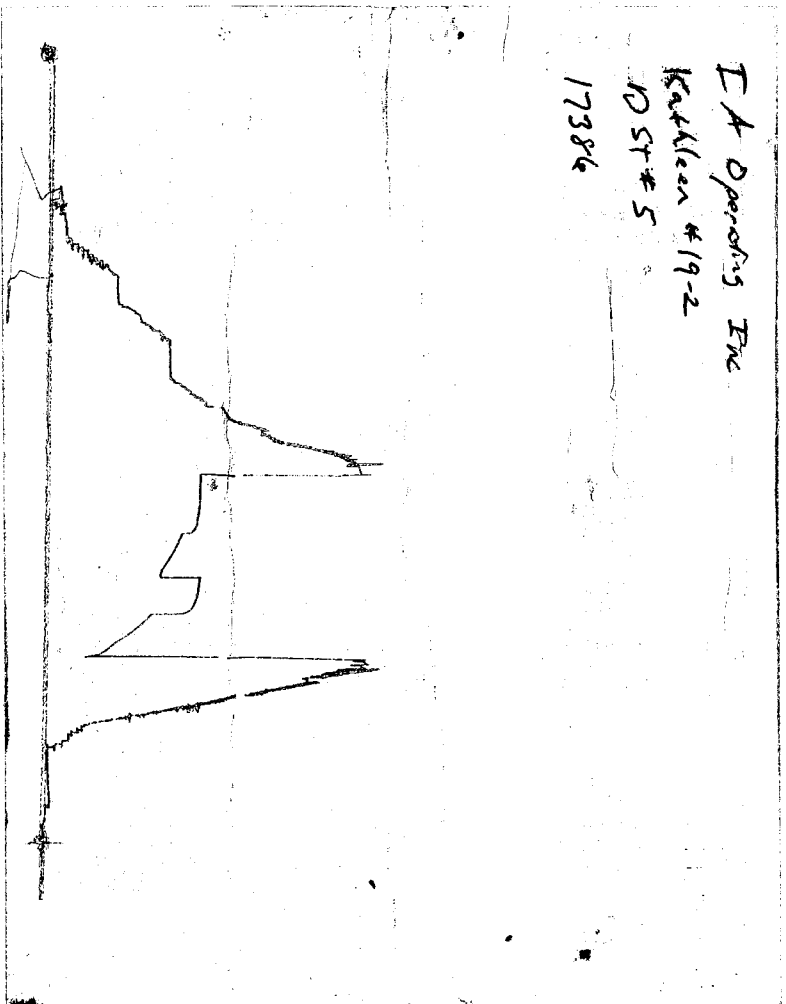
This is a photocopy of the actual AK-1 recorder chart

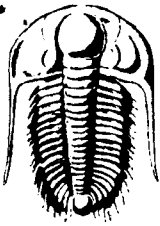
IA Operating Inc

Katkleon #19-2

10 ST # 5

17386





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17387

12/02

Test Ticket

Well Name & No. Kathleen #19-2 Test No. 6 Date 4-22-04
 Company IA Operating Inc Zone Tested K
 Address 900 N. Tyler Rd. #14, Wichita, Ks 67212 Elevation 2482 KB 2477 GL
 Co. Rep / Geo. Randy Kilian Cont. Murfin #3 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 19 Twp. 8 Rge. 26 Co. Sheridan State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3802 - 3820 Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 65,000
 Anchor Length 18' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 3797 Tool Weight 3500
 Bottom Packer Depth 3802 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3926 Wt. Pipe Run 0 Drill Collar Run 486
 Mud Wt. 9.2 LCM 0 Vis. 49 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3307
 Blow Description IFP - Strong Blow, BOB in 2 min.
ISI - Built to BOB in 8 min
FFP - BOB on opening
FSI - Built to BOB in 10 min

Recovery - Total Feet 1170 GIP 2370 Ft. in DC _____ Ft. in DP _____
 Rec. 810 Feet of Clean oil 15% gas
 Rec. 360 Feet of Mud Cut oil 15% mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 128° °F Gravity 32 °API D @ 55 °F Corrected Gravity 32 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1913</u> PSI	<u>6772</u>	<u>✓ 700</u>
(B) First Initial Flow Pressure		<u>50</u> PSI	(depth) <u>3803</u>	Elec. Rec. <u>✓ 150</u>
(C) First Final Flow Pressure		<u>307</u> PSI	Recorder No. <u>13221</u>	Jars _____
(D) Initial Shut-In Pressure		<u>848</u> PSI	(depth) <u>3816</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>328</u> PSI	Recorder No. <u>13252</u>	Circ Sub _____
(F) Second Final Flow Pressure		<u>449</u> PSI	(depth) <u>3923</u>	Sampler _____
(G) Final Shut-In Pressure		<u>840</u> PSI	Initial Opening <u>30</u>	<u>Straddle ✓ 250</u>
(Q) Final Hydrostatic Mud		<u>1786</u> PSI	Initial Shut-In <u>30</u>	Ext. Packer _____

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Final Flow	<u>30</u>	Shale Packer _____
Final Shut-In	<u>45</u>	Mileage <u>89 157.30</u>
T-On Location	<u>30 20:00</u>	Sub Total: <u>1251.30</u>
T-Started	<u>21:33</u>	Std. By _____
T-Open	<u>23:03</u>	Other _____
T-Pulled	<u>1:18</u>	Total: _____
T-Out	<u>4:05</u>	

Approved By _____
 Our Representative Jason McTomney *Mark you*

CHART PAGE

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IAD File

Kathleen # 19-2

OST # 6

Straddle

17387

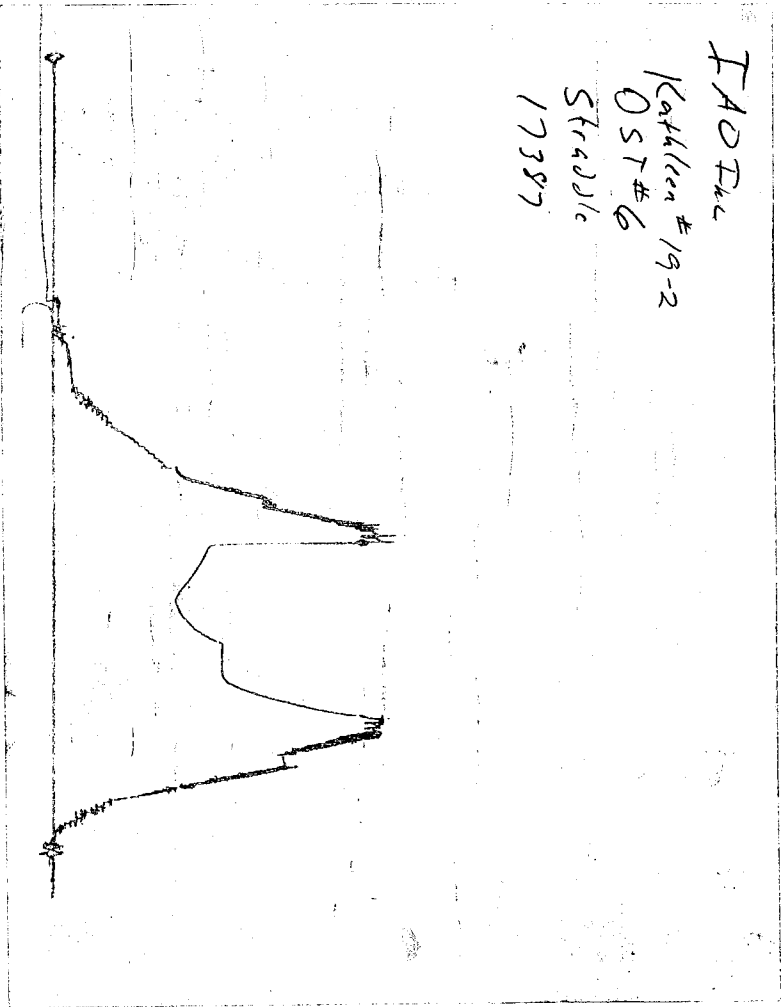


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IA Operating

Kathleen #19-2

DST Le

17387

